

## Whalen Bulls-eye Riser Centerline System

The Whalen Company developed the Bulls-eye Riser Centerline System as a complement to the split risers that we have offered for 20+ years. The genesis of split risers arose from customers desiring to “can” the riser opening in the poured concrete floors rather than core drill the opening. The Bulls-eye Riser Centerline System and split risers require a wider spacing (side to side, not from the cabinet) than the traditional riser spacing. The old thought process was to keep the risers as close to each other as possible to minimize the floor opening and associated fire stop material cost.

As standard, the risers are attached to the unit, so that as the riser size changes the centerline from the cabinet varies. The traditional means to resolve this was to simply move the unit in the floor opening to align the risers. This method of aligning risers has worked for years and in many cases still does but The Whalen Company knew there was a better way.

The Bulls-eye Riser Centerline System was spurred on by the development of two things; the increase in the use of parametric 3D building models and Cast-in -Place Firestop devices. By using design software such as AutoCAD® Revit®, designers would insert the unit models and anchor them in a specific location. By anchoring the unit in the software, the ability to adjust the unit location to account for the natural riser offset was eliminated. In addition, Cast-in-Place Firestop devices got more cost effective and were used more frequently. Both of these developments brought the need to have a common centerline for all riser from the edge of the cabinet (see drawing 609-PT-HIL-4 on next page).

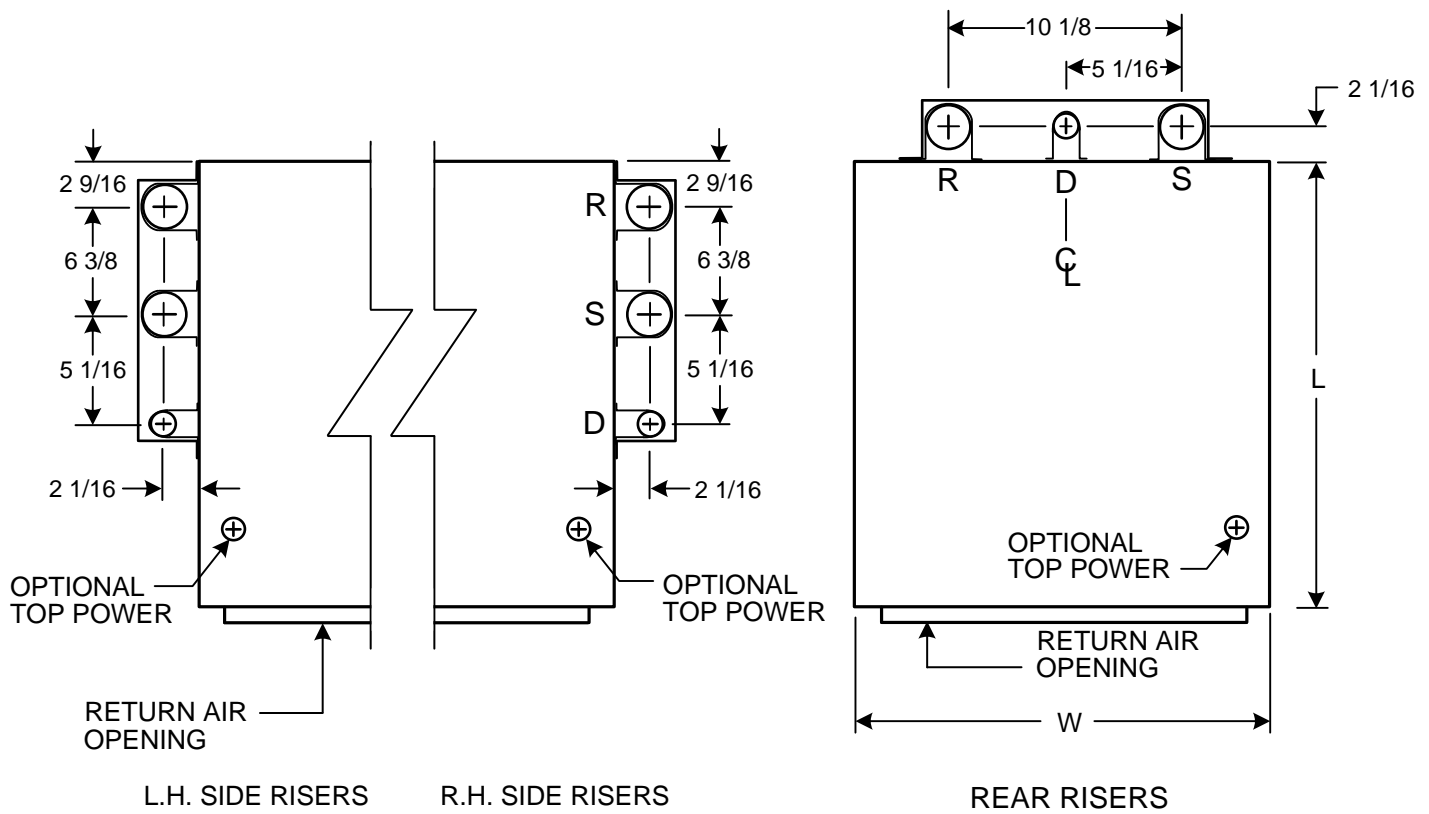
As you can see in the example riser detail drawing, each riser centerline will be 2-1/16” off of the cabinet, meaning that there is no need to move the cabinet to account for a riser size change. The example drawing shows a 4” riser and may vary based on the largest riser on the project.

The many advantages that the Whalen Bulls-eye Riser Centerline System offer include:

- Ability to use with or without a Cast-in-Place device
- Reduced field labor required for shifting cabinets to align risers
- Reduced cost of firestopping material
  - Use of “cans” or core drilling means very little firestop material
  - Use of Cast-in-Place Firestop Devices while costing more up front may reduce the additional cost of firestopping to make up this cost
- Many of the current Cast-in-Place devices also have options for:
  - Water caps
  - Riser supports
  - Wiring chase

Please contact your local Whalen Company representative for additional information on the Whalen Bulls-eye Riser Centerline System to see if it’s right for your project.





Notes:

1. This drawing applies to un-insulated risers in a direct-return riser system. The drain riser (D) shall be insulated.
2. The riser spacing dimensions are based on the largest riser diameter in the system within the range in title block.
3. Risers are protected by a steel riser cover extending the height of the cabinet. Risers are soldered to a copper clamp to help prevent movement during shipment and jobsite handling.
4. Riser couplings are not furnished by Whalen, unless otherwise noted.
5. Supply riser is indicated by 'S', return riser is indicated by 'R'. The cabinet depth is indicated by 'L' and cabinet width is indicated by 'W'.
6. Requires the optional Bullseye Centerline spacing (2 1/16") as shown.

MODELS	W	L
204,304,404	16	17
504,604,804	18	20
1004,1204	20	22

All dimensions in inches.

**WATER SOURCE HEAT PUMP**

**THE WHALEN COMPANY**

EASTON, MARYLAND

**WHISPERLINE™ UNITS**  
**4" RISER DETAIL**  
**INTERNAL DRAIN PAN UNITS**  
**FOR CAST-IN FIRE STOP DEVICES**

DRAWING NUMBER: 609h-PT-HIL-4

NOVEMBER 2017